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REVIEW

"*Gametophytes of Ophioglossaceae*," by D. D. Pant, D. D. Nautiyal, and D. R. Misra. *Phyta Monograph* 1:1-111, 1984.

This is a report on the gametophytes and young embryos of the Ophioglossaceae in India. Six species of *Ophioglossum*, 4 species of *Botrychium*, and *Helminthostachys* were studied from extensive collections of gametophytes. A helpful introduction to the literature initiates this conventional morphological study. Observations on the structure and development of these gametophytes and embryos expand our knowledge about the gametophytes from India. New and interesting information presented includes: meristems of the gametophyte lobes of *Helminthostachys* that suggest that the lobes are short lateral branches; slight lignification of the central strand of elongated parenchyma cells in the cylindrical gametophytes of *Ophioglossum* and *Helminthostachys*; absence of a ventral canal cell in *Ophioglossum* archegonia; and endoscopic embryo development in *O. nudicaule*. The concluding section of the monograph summarizes the new observations and incorporates them into a useful review of the literature. Pertinent information from the literature is also tabulated in a 12 page table at the end of the text. There is an abundance of illustrations (over half of the monograph). The line drawings are excellent but the halftones are in need of improvement. The quality of the halftones is not a serious detraction from the paper because much of the illustrated material is presented as both line drawings and halftones. "*Gametophytes of Ophioglossaceae*" is an informative paper that will be of interest to pteridologists, especially those interested in the morphology and anatomy of gametophytes. This monograph may be purchased from the Society of Indian Plant Taxonomists, Department of Botany, University of Allahabad, Allahabad 211002, India.—DEAN P. WHITTIER, Department of Biology, Vanderbilt University, Nashville, TN 37235.